

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A joy-dial for providing input signals to a device, said joy-dial having a first and a second x-axis input ~~position~~, a first and a second y-axis input ~~position~~, and a first and a second directional input ~~position~~, a joy pad, an elastically deformable diaphragm located below the joy pad corresponding to each of the x-axis and y-axis inputs, and a contact located below and associated with each of the diaphragms and arranged so that pressure applied to the joy pad at one of the x-axis or a y-axis inputs positions results in deformation of the corresponding diaphragm and closure of the associated contact, and wherein the joy dial further includes a first and a second directional contact, said first and second directional contacts being arranged so that they are closed upon movement of the joy dial in a first or a second direction respectively said first and second directional inputs being operable by applying a respective first and second rotational movement to the joy pad.
2. (Currently amended) A joy-dial according to claim 1, further ~~including~~ comprising at least one diagonal input.
3. (Currently amended) A joy-dial according to claim 2 ~~having a wherein the at least one diagonal input between each having a corresponding diagonal input position defined between one of the first y-axis and the second x-axis input, the second x-axis input the second y-axis input, the second y-axis input and the first x-axis input and the first x-axis input and the first y-axis input.~~
4. (Currently amended) A joy-dial according to claim 2 3 wherein pressure applied to a the corresponding diagonal input position on the joy pad results in deformation of the associated diaphragms of the adjacent x-axis and y-axis inputs and closure of their associated contacts.
5. (Currently amended) A joy-dial according to claim 1 further ~~including~~ comprising a central input.
6. (Currently amended) A joy-dial according to claim 5 wherein the central input comprises an elastically deformable diaphragm located below the joy pad and a contact located below and associated with the elastically deformable diaphragm and arranged so that pressure applied to a the central input position on the joy pad results in deformation of each of the diaphragms the diaphragm and closure of their the associated contacts contact.
7. (Currently amended) A joy-dial according to claim 1 further ~~including~~ comprising an engagement means which is engaged during rotation of the joy pad and is arranged to push against a biasing means so as to ~~close the associated~~ operate the first and second directional contact inputs.

8. (Original) A joy-dial according to claim 7 wherein the biasing means restores the joy pad to a home position in which none of the contacts are closed once pressure applied by the user is removed.
9. (Currently amended) A joy-dial according to claim 1 wherein the first and second rotational movement of the ~~joy dial in the first and second direction~~ joy pad is achieved by respective clockwise and anti-clockwise rotation of the joy pad.
10. (Original) A joy-dial according to claim 1 wherein the joy pad can be rotated substantially 45° in either a clockwise or anti-clockwise direction about a z-axis.
11. (Currently amended) A joy-dial according to claim 1 further ~~including~~ comprising a base arranged for attachment to an information device or to a printed circuit board of a device and a cage means arranged to be connected to said base and to locate the joy pad there between.
12. (Original) A joy-dial according to claim 11 wherein the biasing means is located between the joy pad and an upper surface of the base.
13. (Original) A joy-dial according to claim 1 wherein the joy pad is marked to indicate the positioning of the input positions.
14. (Original) A joy-dial according to claim 1 wherein the joy pad has an upper surface which is patterned to enhance grip to the joy pad by the user's finger.
15. (Original) A joy-dial according to claim 1 wherein the joy pad is mounted for pivotal movement on a pivot means.
16. (Original) A joy-dial according to claim 15 wherein the joy pad includes an engaging member on an underside, said engaging member being arranged to engage within a groove formed in an upper surface of said pivot means.
17. (Original) A joy-dial according to claim 16 wherein the engaging member is located in a hollow or aperture formed in the underside of the joy pad.
18. (Original) A joy-dial according to claim 16 wherein the groove is annular so as to enable the joy pad to turn in a clockwise or anti-clockwise direction.
19. (Original) A joy-dial according to claim 1 wherein the joy pad includes at least one thumb rail arranged to aid the user to rotate the joy pad.
20. (Currently amended) An information device having at least one joy-dial, said joy-dial being arranged to provide input signals to the device, said joy-dial having a first and a second x-axis input ~~position~~, a first and a second y-axis input ~~position~~, ~~and~~ a first and second directional input ~~position~~, a joy pad, an elastically deformable diaphragm located below the joy pad corresponding to each of the x-axis and y-axis inputs, and a contact located below and associated with each of the diaphragms ~~and~~ arranged so that pressure applied to the joy pad at one of the x-

axis or a y-axis inputs ~~positions~~ results in deformation of the corresponding diaphragm and closure of the associated contact, ~~and wherein the joy dial further includes a first and a second directional contact, said first and second directional contacts being arranged so that they are closed upon movement of the joy dial in a first or a second direction respectively~~ said first and second directional inputs being operable by applying a respective first and second rotational movement to the joy pad.

21. (Currently amended) A device according to claim 20 further ~~including~~ comprising a microprocessor or the like which is arranged to detect closure of any of the contacts and to interpret such as a logical state change.
22. (Currently amended) A device according to claim 20 further ~~including~~ comprising an operating system which is arranged to be informed by the microprocessor of a logical state change and to in turn inform a software application which interprets the information for executing a corresponding or an associated action.